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1 [Level set and PDE methods for computer graphics](#)

 David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(17.07 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

2 [Numerical computations: its nature and research directions](#)

 J. R. Rice, C. W. Gear, J. Ortega, B. Parlett, M. Schultz, L. F. Shampine, P. Wolfe, J. F. Traub
February 1979 **ACM SIGNUM Newsletter**, Volume 14 Issue si-1

Publisher: ACM Press

Full text available:  [pdf\(4.43 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This report on research in numerical computation is part of the Computer Science and Engineering Research Study (COSERS) which is aimed at technically educated people outside the Computer Science field. This goal led the panel to face many difficult choices between precise, but excessively technical, descriptions and looser, but more accessible expositions. The panel hopes that all readers will keep this in mind.

3 [Symbolic-Interval cooperation in constraint programming](#)

 Laurent Granvilliers, Eric Monfroy, Frédéric Benhamou
July 2001 **Proceedings of the 2001 international symposium on Symbolic and algebraic computation**

Publisher: ACM Press

Full text available:  [pdf\(1.54 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper surveys the field of cooperative constraint solving for a constraint programming perspective with an emphasis on combinations of symbolic and interval methods. On the one hand, symbolic methods provide adapted representations of the constraint expressions. On the other hand, interval methods compute verified enclosures of solution sets. Using cooperation of solvers, one can take advantage of both techniques

in a unified framework: symbolic algorithms generally need to be combined w ...

Keywords: constraint solving, interval arithmetic, symbolic computation

4 Geometric completion of differential systems using numeric-symbolic continuation

 Greg Reid, Chris Smith, Jan Verschelde

June 2002 **ACM SIGSAM Bulletin**, Volume 36 Issue 2

Publisher: ACM Press

Full text available:  pdf(1.32 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Symbolic algorithms using a finite number of exact differentiations and eliminations are able to reduce over and under-determined systems of polynomially nonlinear differential equations to involutive form. The output involutive form enables the identification of consistent initial values, and eases the application of exact or numerical integration methods. Motivated to avoid expression swell of pure symbolic approaches and with the desire to handle systems with approximate coefficients, we propo ...

5 Clustering and singular value decomposition for approximate indexing in high dimensional spaces



Alexander Thomasian, Vittorio Castelli, Chung-Sheng Li

November 1998 **Proceedings of the seventh international conference on Information and knowledge management**

Publisher: ACM Press

Full text available:  pdf(1.12 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 An Adaptive Nonlinear Least-Squares Algorithm



John E. Dennis, David M. Gay, Roy E. Walsh

September 1981 **ACM Transactions on Mathematical Software (TOMS)**, Volume 7 Issue 3

Publisher: ACM Press

Full text available:  pdf(1.39 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 GAMS: a framework for the management of scientific software



Ronald F. Boisvert, Sally E. Howe, David K. Kahaner

December 1985 **ACM Transactions on Mathematical Software (TOMS)**, Volume 11 Issue 4

Publisher: ACM Press

Full text available:  pdf(2.83 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The Guide to Available Mathematical Software (GAMS) provides a framework for both a scientist-end-user and a librarian-maintainer to deal with large quantities of mathematical and statistical software. This framework includes a classification scheme for mathematical and statistical software, a database system to manage information about this software, and both an on-line interactive consulting system and a printed catalog for providing users with access to this information. A description is ...

8 Gross motion planning—a survey



Yong K. Hwang, Narendra Ahuja

September 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 3

Publisher: ACM Press

Full text available:  pdf(6.40 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Motion planning is one of the most important areas of robotics research. The complexity of the motion-planning problem has hindered the development of practical algorithms. This paper surveys the work on gross-motion planning, including motion planners for point robots, rigid robots, and manipulators in stationary, time-varying, constrained, and movable-object environments. The general issues in motion planning are explained. Recent approaches and their performances are briefly described, a ...

Keywords: collision detection, computational geometry, implementation, motion planning, obstacle avoidance, path planning, spatial representation

9 GPGPU: general purpose computation on graphics hardware

 David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, Aaron Lefohn
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  pdf(63.03 MB) Additional Information: [full citation](#), [abstract](#)

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely powerful and flexible processor. The latest graphics architectures provide tremendous memory bandwidth and computational horsepower, with fully programmable vertex and pixel processing units that support vector operations up to full IEEE floating point precision. High level languages have emerged for graphics hardware, making this computational power accessible. Architecturally, GPUs are highly parallel s ...

10 Session 15B: Tensor decomposition and approximation schemes for constraint satisfaction problems

 W. Fernandez de la Vega, Marek Karpinski, Ravi Kannan, Santosh Vempala
May 2005 **Proceedings of the thirty-seventh annual ACM symposium on Theory of computing**

Publisher: ACM Press

Full text available:  pdf(173.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The only general class of MAX-rCSP problems for which Polynomial Time Approximation Schemes (PTAS) are known are the dense problems. In this paper, we give PTAS's for a much larger class of weighted MAX-rCSP problems which includes as special cases the dense problems and, for $r = 2$, all metric instances (where the weights satisfy the triangle inequality) and quasimetric instances; for $r > 2$, our class includes a generalization of metrics. Our algorithms are based on low-rank approximations wi ...

Keywords: approximation scheme, tensor decomposition

11 A survey of methods for recovering quadrics in triangle meshes

 Sylvain Petitjean
June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

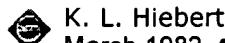
Publisher: ACM Press

Full text available:  pdf(3.91 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In a variety of practical situations such as reverse engineering of boundary representation from depth maps of scanned objects, range data analysis, model-based recognition and algebraic surface design, there is a need to recover the shape of visible surfaces of a dense 3D point set. In particular, it is desirable to identify and fit simple surfaces of known type wherever these are in reasonable agreement with the data. We are interested in the class of quadric surfaces, that is, algebraic surfa ...

Keyw rds: Data fitting, geometry enhancement, local geometry estimation, mesh fairing, shape recovery

12 An Evaluation of Mathematical Software That Solves Systems of Nonlinear Equations



K. L. Hiebert

March 1982 **ACM Transactions on Mathematical Software (TOMS)**, Volume 8 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.06 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

13 A Fortran 90 environment for research and prototyping of enclosure algorithms for nonlinear equations and global optimization



R. Baker Kearfott

March 1995 **ACM Transactions on Mathematical Software (TOMS)**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.04 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

An environment for general research into and prototyping of algorithms for reliable constrained and unconstrained global nonlinear optimization and reliable enclosure of all roots of nonlinear systems of equations, with or without inequality constraints, is being developed. This environment should be portable, easy to learn, use, and maintain, and sufficiently fast for some production work. The motivation, design principles, uses, and capabilities for this environment are outlined. The envi ...

Keywords: Fortran 90, automatic differentiation, global optimization, nonlinear algebraic systems, symbolic computation

14 Kernel independent component analysis

Francis R. Bach, Michael I. Jordan

March 2003 **The Journal of Machine Learning Research**, Volume 3

Publisher: MIT Press

Full text available: [pdf\(561.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a class of algorithms for independent component analysis (ICA) which use contrast functions based on canonical correlations in a reproducing kernel Hilbert space. On the one hand, we show that our contrast functions are related to mutual information and have desirable mathematical properties as measures of statistical dependence. On the other hand, building on recent developments in kernel methods, we show that these criteria and their derivatives can be computed efficiently. Minimizi ...

Keywords: Stiefel manifold, blind source separation, canonical correlations, gram matrices, incomplete Cholesky decomposition, independent component analysis, integral equations, kernel methods, mutual information, semiparametric models

15 Multiple-view geometry for image-based modeling



Jana Košecká, Yi Ma, Stefano Soatto, René Vidal

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course n tés GRAPH '04**

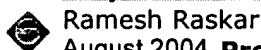
Publisher: ACM Press

Full text available: [pdf\(23.14 MB\)](#) Additional Information: [full citation](#), [abstract](#)

This course presents the state of the art in multiple-view geometry, including methods and algorithms for reconstructing 3-D geometric models of scenes from video or photographs. This course is based on a novel approach to multiple-view geometry that only requires linear algebra, as opposed to more involved projective and algebraic geometry that most current methods employ. This new approach aims to make image-based modeling techniques accessible to a larger audience compared to existing ones.

T ...

16 Projectors: advanced graphics and vision techniques



Ramesh Raskar
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: [pdf\(6.53 MB\)](#) Additional Information: [full citation](#)



17 Think globally, fit locally: unsupervised learning of low dimensional manifolds

Lawrence K. Saul, Sam T. Roweis

December 2003 **The Journal of Machine Learning Research**, Volume 4

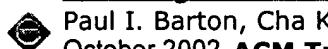
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Full text available: [pdf\(2.91 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



The problem of dimensionality reduction arises in many fields of information processing, including machine learning, data compression, scientific visualization, pattern recognition, and neural computation. Here we describe locally linear embedding (LLE), an unsupervised learning algorithm that computes low dimensional, neighborhood preserving embeddings of high dimensional data. The data, assumed to be sampled from an underlying manifold, are mapped into a single global coordinate system of lowe ...

18 Modeling, simulation, sensitivity analysis, and optimization of hybrid systems



Paul I. Barton, Cha Kun Lee
October 2002 **ACM Transactions on Modeling and Computer Simulation (TOMACS)**, Volume 12 Issue 4

Publisher: ACM Press

Full text available: [pdf\(383.14 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Hybrid (discrete/continuous) systems exhibit both discrete state and continuous state dynamics which interact to such a significant extent that they cannot be decoupled and must be analyzed simultaneously. We present an overview of the work that has been done in the modeling, simulation, sensitivity analysis, and optimization of hybrid systems, paying particular attention to the interaction between discrete and continuous dynamics. A concise intuitive framework for hybrid system modeling is pres ...

Keywords: Hybrid automata, combined discrete/continuous simulation, consistent reinitialization, discontinuities, sensitivity analysis, state events, transitions

19 Evolutionary computation and optimization (ECO): Experiments with UNA for solving linear constraints in real variables



Neelam Gupta, YongJun Cho, Mohammad Z. Hossain
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Publisher: ACM Press

Full text available: [pdf\(229.19 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



Linear constraints arise in formulation of several computationally challenging problems such as weather modeling, underground water modeling, air pollution modeling etc. The constraints may correspond to multiple observations that place upper or lower bounds on linear combinations of variables. Computing a feasible solution or solving these inequalities in least squares sense is a fundamental problem in many applications. In this paper, we present a strikingly simple numerical algorithm called UN ...

Keywords: least squares solution, linear inequalities, linear programming, numerical algorithms

20 A survey on wavelet applications in data mining

 Tao Li, Qi Li, Shenghuo Zhu, Mitsunori Ogihara
December 2002 **ACM SIGKDD Explorations Newsletter**, Volume 4 Issue 2

Publisher: ACM Press

Full text available:  pdf(330.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Recently there has been significant development in the use of wavelet methods in various data mining processes. However, there has been written no comprehensive survey available on the topic. The goal of this is paper to fill the void. First, the paper presents a high-level data-mining framework that reduces the overall process into smaller components. Then applications of wavelets for each component are reviewed. The paper concludes by discussing the impact of wavelets on data mining research an ...

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IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

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Zhong-Gen Yang; Yu-Hong Liu;

[Neural Networks and Brain, 2005. ICNN&B '05. International Conference on](#)
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Semmani, R.J.; Womack, B.F.; Barr, R.E.;

[Signals, Systems and Computers, 2000. Conference Record of the Thirty-Fourth Annual Asilomar Conference on](#)
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S10	69	703/2.ccls. (singular adj value)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/05/26 13:42
S11	5	703/2.ccls. ((singular adj value) same (nonlinear or non-linear or (non adj linear)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/05/26 13:44
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S20	103	((singular adj value) same (nonlinear or non-linear or (non adj linear)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/05/26 14:13

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S22	24	((singular adj value) same (nonlinear or non-linear or (non adj linear))) gradient	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2006/05/26 15:31
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